RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/019,386A_
Source: _1FWP_
Date Processed by STIC: _8/22/06_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 08/22/2006
PATENT APPLICATION: US/10/019,386A TIME: 14:36:34

Input Set : A:\221042.ST25.txt
Output Set: N:\CRF4\08222006\J019386A.raw

```
   3 <110> APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED
   4       BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
   5       BELL, Adam
   6       WEST, Adam
   7       FALSENFELD, Gary
   9 <120> TITLE OF INVENTION: DNA BINDING PROTEIN AND SEQUENCE AS INSULATORS HAVING
SPECIFIC
  10       ENHANCER BLOCKING ACTIVITY FOR REGULATION OF GENE EXPRESSION
  12 <130> FILE REFERENCE: 221042
  14 <140> CURRENT APPLICATION NUMBER: 10/019,386A
C--> 15 <141> CURRENT FILING DATE: 2001-12-28
  17 <150> PRIOR APPLICATION NUMBER: 60/141,728
  18 <151> PRIOR FILING DATE: 1999-06-30
  20 <150> PRIOR APPLICATION NUMBER: PCT/US00/10509
  21 <151> PRIOR FILING DATE: 2000-04-19
  23 <160> NUMBER OF SEQ ID NOS: 104
  25 <170> SOFTWARE: PatentIn version 3.3
  27 <210> SEQ ID NO: 1
  28 <211> LENGTH: 42
  29 <212> TYPE: DNA
  30 <213> ORGANISM: CHICKEN
  32 <400> SEQUENCE: 1
  33 cccagggatg taattacgtc cctcccccgc taggggcag ca                    42
  36 <210> SEQ ID NO: 2
  37 <211> LENGTH: 34
  38 <212> TYPE: DNA
  39 <213> ORGANISM: CHICKEN
  41 <400> SEQUENCE: 2
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  45 <210> SEQ ID NO: 3
  46 <211> LENGTH: 11
  47 <212> TYPE: DNA
  48 <213> ORGANISM: Artificial
  50 <220> FEATURE:
  51 <223> OTHER INFORMATION: primer
  53 <400> SEQUENCE: 3
  54 ccatacgttr y                                                     11
  57 <210> SEQ ID NO: 4
  58 <211> LENGTH: 8
  59 <212> TYPE: DNA
  60 <213> ORGANISM: Artificial
  62 <220> FEATURE:
  63 <223> OTHER INFORMATION: primer
  65 <400> SEQUENCE: 4
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Input Set : A:\221042.ST25.txt
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72 <213> ORGANISM: Artificial
74 <220> FEATURE:
75 <223> OTHER INFORMATION: primer
77 <400> SEQUENCE: 5
78 tacattaatg ca                                              12
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 42
83 <212> TYPE: DNA
84 <213> ORGANISM: CHICKEN
86 <400> SEQUENCE: 6
87 cccatttcgt gccggccgtc cctcccccgc taggggcag ca              42
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 42
92 <212> TYPE: DNA
93 <213> ORGANISM: CHICKEN
95 <400> SEQUENCE: 7
96 cccagggatg taattaatga aagaacccgc taggggcag ca              42
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 42
101 <212> TYPE: DNA
102 <213> ORGANISM: CHICKEN
104 <400> SEQUENCE: 8
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108 <210> SEQ ID NO: 9
109 <211> LENGTH: 42
110 <212> TYPE: DNA
111 <213> ORGANISM: CHICKEN
113 <400> SEQUENCE: 9
114 acgacggggg atcgccccct ccctgcatta atgtagggac cc            42
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 23
119 <212> TYPE: DNA
120 <213> ORGANISM: CHICKEN
122 <400> SEQUENCE: 10
123 gtaattacgt ccctccccg cta                                  23
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127 <211> LENGTH: 42
128 <212> TYPE: DNA
129 <213> ORGANISM: CHICKEN
131 <400> SEQUENCE: 11
132 cccaggtcgg taattacgtc cctcccccgc taggggcag ca             42
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136 <211> LENGTH: 42
137 <212> TYPE: DNA
138 <213> ORGANISM: CHICKEN
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146 <212> TYPE: DNA
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149 <400> SEQUENCE: 13
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156 <213> ORGANISM: CHICKEN
158 <400> SEQUENCE: 14
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162 <210> SEQ ID NO: 15
163 <211> LENGTH: 42
164 <212> TYPE: DNA
165 <213> ORGANISM: CHICKEN
167 <400> SEQUENCE: 15
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172 <211> LENGTH: 42
173 <212> TYPE: DNA
174 <213> ORGANISM: CHICKEN
176 <400> SEQUENCE: 16
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182 <212> TYPE: DNA
183 <213> ORGANISM: CHICKEN
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190 <211> LENGTH: 44
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial
194 <220> FEATURE:
195 <223> OTHER INFORMATION: primer
197 <400> SEQUENCE: 18
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201 <210> SEQ ID NO: 19
202 <211> LENGTH: 40
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <223> OTHER INFORMATION: primer
209 <400> SEQUENCE: 19
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216 <213> ORGANISM: Artificial
218 <220> FEATURE:
219 <223> OTHER INFORMATION: primer
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225 <210> SEQ ID NO: 21
226 <211> LENGTH: 47
227 <212> TYPE: DNA
228 <213> ORGANISM: Xenopus laevis
230 <400> SEQUENCE: 21
231 acccgattcg gggtcggggc cccggggggtg cccgctaagg ggccccg          47
234 <210> SEQ ID NO: 22
235 <211> LENGTH: 45
236 <212> TYPE: DNA
237 <213> ORGANISM: Xenopus laevis
239 <400> SEQUENCE: 22
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243 <210> SEQ ID NO: 23
244 <211> LENGTH: 45
245 <212> TYPE: DNA
246 <213> ORGANISM: Xenopus laevis
248 <400> SEQUENCE: 23
249 acccgattcg gggtcggggc cccgggggtg cccgcggggg ccccg             45
252 <210> SEQ ID NO: 24
253 <211> LENGTH: 45
254 <212> TYPE: DNA
255 <213> ORGANISM: Xenopus laevis
257 <400> SEQUENCE: 24
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261 <210> SEQ ID NO: 25
262 <211> LENGTH: 42
263 <212> TYPE: DNA
264 <213> ORGANISM: Xenopus laevis
266 <400> SEQUENCE: 25
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270 <210> SEQ ID NO: 26
271 <211> LENGTH: 45
272 <212> TYPE: DNA
273 <213> ORGANISM: Xenopus laevis
275 <400> SEQUENCE: 26
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279 <210> SEQ ID NO: 27
280 <211> LENGTH: 47
281 <212> TYPE: DNA
282 <213> ORGANISM: Xenopus laevis
284 <400> SEQUENCE: 27
285 acccgattcg gggtcggggc cccgggggtg cccgctaagg ggccccg           47
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Input Set : **A:\221042.ST25.txt**
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288 <210> SEQ ID NO: 28
289 <211> LENGTH: 39
290 <212> TYPE: DNA
291 <213> ORGANISM: Homo sapiens
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294 cccaggcctg cactgccgcc tgccggcagg ggtccagtc                 39
297 <210> SEQ ID NO: 29
298 <211> LENGTH: 33
299 <212> TYPE: DNA
300 <213> ORGANISM: CHICKEN
302 <400> SEQUENCE: 29
303 aggcgcgcct gggagctcac ggggacagcc ccc                       33
306 <210> SEQ ID NO: 30
307 <211> LENGTH: 33
308 <212> TYPE: DNA
309 <213> ORGANISM: CHICKEN
311 <400> SEQUENCE: 30
312 aggcgcgcct gggagcgccg gaccggagcg gag                       33
315 <210> SEQ ID NO: 31
316 <211> LENGTH: 33
317 <212> TYPE: DNA
318 <213> ORGANISM: CHICKEN
320 <400> SEQUENCE: 31
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324 <210> SEQ ID NO: 32
325 <211> LENGTH: 34
326 <212> TYPE: DNA
327 <213> ORGANISM: CHICKEN
329 <400> SEQUENCE: 32
330 aggcgcgcct gtcattctaa atctctcttt cagc                      34
333 <210> SEQ ID NO: 33
334 <211> LENGTH: 33
335 <212> TYPE: DNA
336 <213> ORGANISM: CHICKEN
338 <400> SEQUENCE: 33
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342 <210> SEQ ID NO: 34
343 <211> LENGTH: 45
344 <212> TYPE: DNA
345 <213> ORGANISM: CHICKEN
347 <400> SEQUENCE: 34
348 agcccccccc caaagccccc agggatgggg gcagcagcga gccgc          45
351 <210> SEQ ID NO: 35
352 <211> LENGTH: 45
353 <212> TYPE: DNA
354 <213> ORGANISM: CHICKEN
356 <400> SEQUENCE: 35
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360 <210> SEQ ID NO: 36
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/22/2006
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:99; N Pos. 6,9
Seq#:101; Xaa Pos. 2,7
Seq#:102; Xaa Pos. 3,6
Seq#:104; Xaa Pos. 4

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,18,19,20,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,99,100,101
Seq#:102,103,104

VERIFICATION SUMMARY   DATE: 08/22/2006
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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0
L:1205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0